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(71) Applicant (for all designated States except US): **UNIVERSITY OF TENNESSEE RESEARCH FOUNDATION**
[US/US]; 1534 White Avenue, Suite 403, Knoxville, TN
37996-1527 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MULLIN, Beth, C.**
[US/US]; 6641 Cate Road, Knoxville, TN 37911 (US).
GUPTA, Rakesh, Kumar [IN/IN]; 48 Kailash Hills, East
of Kailash, New Delhi 110065 (IN). **DOBRITSA, Svet-**
lana, V. [RU/US]; 18105 27th Drive S.E., Bothell, WA
98012-9338 (US).

(74) Agents: **EISENSCHNEK, Frank, C.** et al.; Saliwanchik,
Lloyd & Saliwanchik, A Professional Association, P.O.Box
142950, Gainesville, FL 32614-2950 (US).

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(54) Title: NOVEL PLANT GLYCINE AND HISTIDINE-RICH METAL-BINDING PROTEIN FAMILY AND USES THEREOF

(57) Abstract: The subject invention provides materials and methods for the detection and bioremediation of metals from the envi-
ronment. Specifically, the subject invention provides polynucleotides and polypeptides that bind to a variety of metals. The subject
invention provides transgenic plants containing polypeptides according to the subject invention as well as vectors and genetic con-
structs that provide polypeptides, or fragments thereof, that are capable of binding various metals that can be found in the environment
or at contaminated sites.



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